

10/590,727

L100 ANSWER 33 OF 43 HCAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 2000:688414 HCAPLUS Full-text<<LOGINID::20100628>>
 DOCUMENT NUMBER: 133:263552
 TITLE: Chemically reactive plane-rigidized cyanine dyes and
 their derivatives
 INVENTOR(S): Levison, Derek
 PATENT ASSIGNEE(S): Princeton Separations, USA
 SOURCE: PCT Int. Appl., 61 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000056933	A1	20000928	WO 2000-US7783	20000323 <--
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1163372	A1	20011219	EP 2000-919582	20000323 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
PRIORITY APPLN. INFO.:			US 1999-125839P	P 19990324 <--
			WO 2000-US7783	W 20000323 <--

OTHER SOURCE(S): MARPAT 133:263552

ED Entered STN: 29 Sep 2000

AB The invention describes novel plane-rigidized cyanine near-IR (NIR)
 fluorescent dyes, their methods of preparation and use in the non-isotopic
 labeling of biol. mols. Such dyes contain a central cyclic hydroanthraquinone
 framework which provides for a stable and rigid structure to ensure low
 reactivity with neighboring mols., a sharp absorption band, a high quantum
 yield, and emissions in a region largely devoid of natural background auto-
 fluorescence. Such dyes further comprise variable end groups flanking the
 central cyclic framework, allowing formation of a number of different plane-
 rigidized dyes, each having a slightly different emission wavelength.
 Functional groups are provided for attachment to target biol. mols. Moreover,
 hydrophilic functional groups are provided where necessary to significantly
 increase the water solubility of the dye mols.

IT 297734-75-9

RL: RCT (Reactant); RACT (Reactant or reagent)
 (chemical reactive plane-rigidized cyanine dyes and derivs.)

IT 297734-78-2P

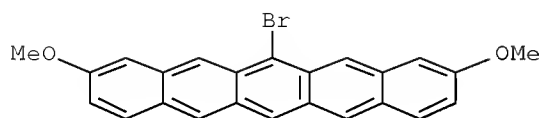
RL: RCT (Reactant); SPN (Synthetic preparation); FREE
 (Preparation); RACT (Reactant or reagent)
 (chemical reactive plane-rigidized cyanine dyes and derivs.)

IT 297734-75-9

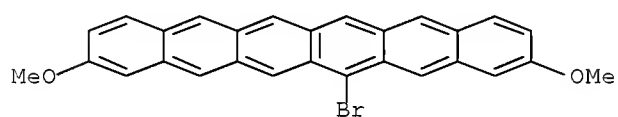
RL: RCT (Reactant); RACT (Reactant or reagent)
 (chemical reactive plane-rigidized cyanine dyes and derivs.)

RN 297734-75-9 HCAPLUS

CN Pentacene, 13-bromo-2,10-dimethoxy- (CA INDEX NAME)



IT 297734-78-2P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP
 (Preparation); RACT (Reactant or reagent)
 (chemical reactive plane-rigidized cyanine dyes and derivs.)
 RN 297734-78-2 HCAPLUS
 CN Hexacene, 14-bromo-2,11-dimethoxy- (CA INDEX NAME)



OS.CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD
 (5 CITINGS)
 REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT